

IN THE CLAIMS

Please amend the Claims as follows:

1 (Currently Amended). A rotor of a synchronous motor comprising:

a main core, formed from a plurality of laminated thin iron sheets, the thin iron sheets having a hole at a center for receiving a rotating shaft, and a number of magnet holes and a number of induced conductor holes radially formed in the thin iron sheets at a predetermined space differently from the hole;

a plurality of magnets inserted into the magnet holes of the main core;

a supplementary cores, having a hole and induced conductor holes corresponding to the hole and the induced conductor holes of the main core, the supplementary cores disposed at the ends of the main core in which the magnet is inserted; and

an induced conductor ingoted through the induced conductor holes of the main core and the induced conductor holes of the supplementary cores;

wherein the supplementary cores do not have any magnet holes and the supplementary cores cover the magnet holes at both ends of the main core.

2 (Original). The rotor of a synchronous motor of claim 1, wherein the supplementary cores are formed of a plurality of laminated thin iron sheets.

3 (Original). The rotor of a synchronous motor of claim 2, wherein the thin iron sheets of the main core and the supplementary cores respectively include calkings corresponding to each other.

4 (Original). The rotor of a synchronous motor of claim 1, wherein the induced conductor is made of aluminum.

5 (Cancelled).

6 (Cancelled).

7 (Cancelled).